

METHOD AND APPARATUS FOR ROBUST EFFICIENT PARSING

ABSTRACT OF THE DISCLOSURE

The present invention provides a method for
5 improving the efficiency of parsing text. Aspects of
the invention include representing parse tokens as
integers where a portion of the integer indicates the
location in which a definition for the token can be
found. In a further aspect, an integer representing a
10 token points to an array of tokens that can be
activated by the token. In another aspect, a list of
pointers to partial parses is created before
attempting to parse a next word in the text string.
The list of pointers includes pointers to partial
15 parses that are expecting particular semantic tokens.
A fourth aspect of the invention utilizes a data
structure to list the semantic tokens that have been
fully parsed for each span in the input text segment.
When a token is fully parsed, the list is accessed to
20 determine if the new token should be discarded.